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MINUTES OF THE ANNUAL MEETING OF THE ASTRONOMICAL
SOCIETY OF THE PACIFIC, HELD IN THE ROOMS OF THE
SOCIETY, MARCH 25, 1899, AT 8 P.M.

The meeting was called to order by President AITKEN. A quorum was present. The minutes of the last meeting were approved. The Secretary read the names of new members duly elected at the Directors' meeting.

The following papers were presented:—

1. Address of the retiring President of the Society in Conferring the Bruce Medal upon Geh. Rath Dr. ARTHUR AUWERS, by R. G. AITKEN.
2. Reports of Committees: on Nominations; on the Comet-Medal; on Auditing; and Annual Report of the Treasurer.
3. Photographs of the Great Nebula in *Orion* which are Comparable with Drawings, by JAMES E. KEELER.
4. Observations of *Mira (o Ceti)* in 1898-99, by ROSE O'HALLORAN.
5. Elliptic Elements of Comet I, 1898 (Perrine), by H. D. CURTIS.
6. Earthquakes in California in 1898, by C. D. PERRINE.
7. Planetary Phenomena for May and June, 1899, by M. MCNEILL.

The Committee on Nominations reported a list of names proposed for election as Directors, as follows: Messrs. CHAS. BURCKHALTER, W. W. CAMPBELL, C. B. HILL, J. E. KEELER, E. J. MOLERA, GEO. C. PARDEE, C. D. PERRINE, WM. M. PIERSON, O. VON GELDERN, F. R. ZIEL, and Miss R. O'HALLORAN.

For Committee on Publication: Messrs. R. G. AITKEN, S. D. TOWNLEY, O. VON GELDERN.

Messrs. BURCKHALTER and PALMER were appointed as tellers. The polls were open from 8:15 to 9 P.M., and the persons above named were duly elected to serve for the ensuing year.

REPORT OF THE COMMITTEE ON THE COMET-MEDAL, SUBMITTED
MARCH 25, 1899.

This report relates to the calendar year 1898. The comets of 1898 have been:

- Comet *a* (periodic comet) 1892 IV (Winnecke), re-discovered by Mr. C. D. PERRINE, Assistant Astronomer at the Lick Observatory, on the morning of January 2d.
- Comet *b* (unexpected comet), discovered by Mr. C. D. PERRINE, Assistant Astronomer at the Lick Observatory, on the morning of March 20th.
- Comet *c* (unexpected comet), discovered (photographically) by Mr. E. F. CODDINGTON, Fellow at the Lick Observatory, on June 11th. Independently discovered by Herr W. PAULY, of Bukarest, on June 14th.
- Comet *d* (periodic comet) 1895 I (Encke), re-discovered by Mr. JOHN GRIGG, of Thames, New Zealand, on June 7th, and independently by Mr. JOHN TEBBUTT, of Windsor, New South Wales, on June 12th.

- Comet *e* (unexpected comet), discovered by Mr. C. D. PERRINE, Assistant Astronomer at the Lick Observatory, on the morning of June 15th.
- Comet *f* (periodic comet) 1891 II (Wolf), re-discovered by Professor W. J. HUSSEY, Astronomer of the Lick Observatory, on June 16th.
- Comet *g* (unexpected comet), discovered by M. E. GIACOBINI of the Nice Observatory, on June 18th.
- Comet *h* (unexpected comet), discovered by Mr. C. D. PERRINE, Assistant Astronomer at the Lick Observatory, on the morning of September 13th. Independently discovered by M. P. CHOFARDET, of Besançon, on the morning of September 15th.
- Comet *i* (unexpected comet), discovered by Dr. WM. R. BROOKS, of Smith Observatory, Geneva, N. Y., on October 20th.
- Comet *j* (unexpected comet), discovered (photographically) by Dr. FREDERICK L. CHASE, of the Winchester Observatory, Yale University, on November 14th.

In accordance with the regulations, the Comet-Medal has been awarded to the first discoverers of Comets *b*, *c*, *e*, *g*, *h*, *i*, and *j*.

Respectfully submitted,

JAMES E. KEELER (*ex-officio*),

WM. M. PIERSON,

CHAS. BURCKHALTER,

The Committee on the Comet-Medal.

Publications of the

The Treasurer submitted his Annual Report as follows:—

ANNUAL STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE
ASTRONOMICAL SOCIETY OF THE PACIFIC FOR THE
FISCAL YEAR ENDING MARCH 25, 1899.

GENERAL FUND.

Receipts.

Cash Balance, March 26, 1898.....		\$388 78
Received from dues.....	\$1250 71	
“ “ sale of publications.....	66 70	
“ “ “ stationery.....	65	
“ “ advertisements.....	72 00	
“ “ Comet Medal Fund (engraving 14 medals, No. 22-35)....	14 00	
“ “ Security Savings Bank (interest) ..	1 15	
“ “ Life Membership Fund (interest).....	84 43	
	<u>\$1489 64</u>	
Less transfer to Life Membership Fund.....	50 00	1439 64
		<u>\$1828 42</u>

Expenditures.

For publications: printing.....	\$732 10	
“ “ : illustrations (cuts).....	98 68	
	<u>\$830 78</u>	
Stationery and printing.....	116 05	
Postages.....	110 21	
Rent.....	180 00	
Salary Secretary-Treasurer.....	180 00	
Expressages.....	9 39	
Janitor and elevator.....	19 00	
Gas.....	2 80	
Taxes.....	2 71	
Fire insurance premiums.....	26 25	
Telegrams.....	4 15	
Collecting dues.....	11 40	
Lantern at two lectures.....	20 00	
Engrossing diplomas.....	6 50	
Engraving nine comet medals (Nos. 27 to 35).....	9 00	
Four replicas Bruce Medal and charges.....	10 81	
Ink, boxes, dry plates, and notary fee.....	4 85	
	<u>\$1543 90</u>	
		<u>\$284 52</u>
Feb. 27, 1899. Advanced to Bruce Medal Fund (second award) ..		59 97
Cash Balance, March 25, 1899.....		<u>\$224 55</u>

LIFE MEMBERSHIP FUND.

Cash Balance, March 26, 1898.....	\$2200 61	
Received from General Fund.....	50 00	
“ “ Interest for 1898.....	84 43	
	<u>\$2335 04</u>	
Less cash advanced to Bruce Medal Fund (see Resolution Vol. XI., page 58).....	\$196 66	
“ interest transferred to General Fund.....	84 43	
	<u>281 09</u>	
Cash Balance, March 25, 1899.....		<u>\$2053 95</u>

Astronomical Society of the Pacific.

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BRUCE MEDAL FUND.

Receipts.

Sept. 20, 1897. Cash received from Miss C. W. BRUCE	\$2750 00
Interest for 1897.....	18 30
Cash Balance, March 26, 1898.....	\$2768 30
Interest for 1898.....	87 44
July 8, 1898. Cash advanced by General Fund \$196 66	
Dec. 16, " " returned to " " 196 66	
" " " advanced by Life Membership Fund	196 66
Feb. 27, 1899. " advanced by General Fund for Second Award	59 97
	<u>\$3112 37</u>

Expenditures.

Designing and engraving two steel dies (obverse and reverse); engraving two steel hubs (in relief); and the steel ferrule of coining, by ALPHÉE DUBOIS, Paris	Frs. 2000 @ 5.173 = \$386 62
Price of gold metal } First Award {	Frs. 447 38 = \$86 48
Striking Gold Medal }	50 05 = 9 68
	96 16
The medal is of 22-carat (916/000 fine) gold; the alloy (84/000) is copper; its dimensions are: diameter : 60 millimeters (the same as the seal of the Society); thickness at the rim : 3 millimeters; weight : 141.8 grammes (4.56 oz. troy).	
Engraving recipient's name on Gold Medal.	Frs 5 00
Nine bronze replicas @ 2.15	19 35
Four extra bronze replicas (required as a deposit by the French Mint).....	8 60
Four extra bronze replicas.....	} (Presented to A. DUBOIS)... 21 50
Six bronze cuts.	
Two bronze cuts.....	4 30
Silvering two cuts.....	2 00
One square morocco case.....	6 00
Nine round morocco cases @ 1.75.....	15 75
Revenue stamps.	50
Packing and freight to New York.....	16 00
	Frs. 99 00 @ 5.173 = 19 14
Duty on nine replicas and charges at New York	6 85
Marine insurance from Paris to San Francisco	60
Express from New York.....	1 25
	<u>\$510 62</u>
Feb. 27, 1899. Remittance to A. DUBOIS, for one Gold Medal (Second Award).....	101 75
	<u>612 37</u>
Cash Balance, March 25, 1899.....	<u>\$2500 00</u>

DONOHUE COMET-MEDAL FUND.

Cash Balance, March 26, 1898.....	\$631 36
Interest for 1898.....	24 36
	<u>\$655 72</u>
Less transfer to General Fund (engraving 14 medals, No. 22-35).....	14 00
Cash Balance, March 25, 1899.....	<u>\$641 72</u>

Publications of the

ALEXANDER MONTGOMERY LIBRARY FUND.

Cash Balance, March 26, 1898	\$1562 09
Interest for 1898	60 11
	<hr/>
	\$1622 20
Less expended for books, binding, etc.	104 30
	<hr/>
Cash Balance, March 25, 1899	<u>\$1517 90</u>

FUNDS.

Balances on Deposit as follows :

General Fund :		
with Donohoe Kelly Banking Co.	\$215 07	
" Security Savings Bank.	9 48	
	<hr/>	\$224 55
Life Membership Fund :		
with San Francisco Savings Union	\$853 95	
" German Savings and Loan Society.	600 00	
" Hibernia Savings and Loan Society	600 00	
	<hr/>	\$2053 95
Donohoe Comet-Medal Fund :		
with San Francisco Savings Union	\$213 62	
" German Savings and Loan Society.	208 13	
" Hibernia Savings and Loan Society	219 97	
	<hr/>	\$641 72
Alexander Montgomery Library Fund :		
with San Francisco Savings Union	\$483 82	
" German Savings and Loan Society.	400 00	
" Hibernia Savings and Loan Society	634 08	
	<hr/>	\$1517 90
Bruce Medal Fund :		
with San Francisco Savings Union.	\$1250 00	
" Security Savings Bank.	625 00	
" German Savings and Loan Society	625 00	
	<hr/>	\$2500 00
		<hr/>
		<u>\$6938 12</u>

SAN FRANCISCO, March 25, 1899.

F. R. ZIEL, *Treasurer*.

The Committee appointed to audit the Treasurer's accounts reported as follows, and the report was, on motion, accepted and adopted:—

To the President and Members of the Astronomical Society of the Pacific:

GENTLEMEN—Your committee appointed to audit the accounts of the Treasurer for the fiscal year ending March 25, 1899, have made a careful examination, and find same to be correct.

Yours respectfully,

O. VON GELDERN,
F. H. McCONNELL.

March 25, 1899.

President AITKEN then read the annual address.

Mr. BABCOCK presented to the Society, in the name of Dr. E. S. HOLDEN, a large photograph of the Moon, made by Professor DRAPER in September, 1863. The grateful thanks of the Society were returned to Dr. HOLDEN for this most valuable gift.

The following resolution was, on motion, adopted:—

Resolved, That all the acts appearing in the minutes of the meetings of the Board of Directors of this Society, as having been done by said Board during the past fiscal year, are here now, by this Society, approved and confirmed.

Adjourned.